



Local Adaptation Planning and the General Plan Guidelines

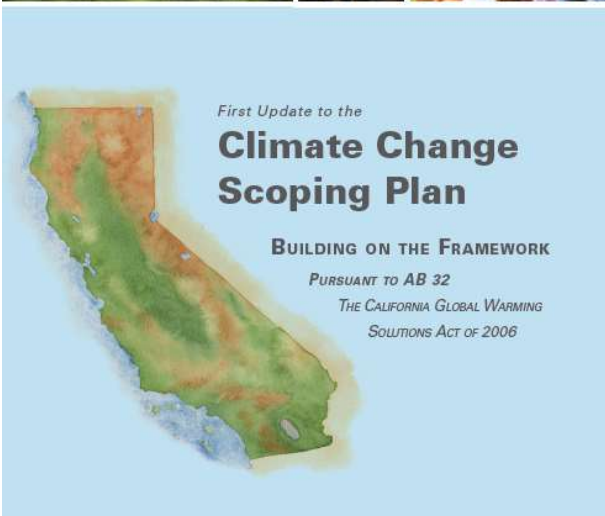


Governor's Office of Planning and Research
Michael McCormick
September 15, 2017

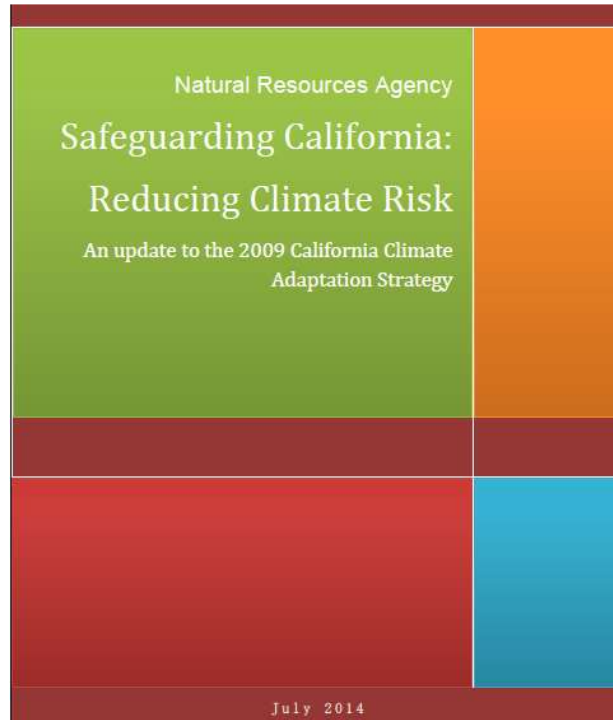


Local Action on Adaptation

Reducing Emissions



Preparing for Impacts



Research





General Plan Guidelines (2017 Update)

Required Elements

- Land use
- Circulation
- Housing
- Conservation
- Open Space
- Noise
- **Safety**
- **Environmental Justice***
- Air Quality*

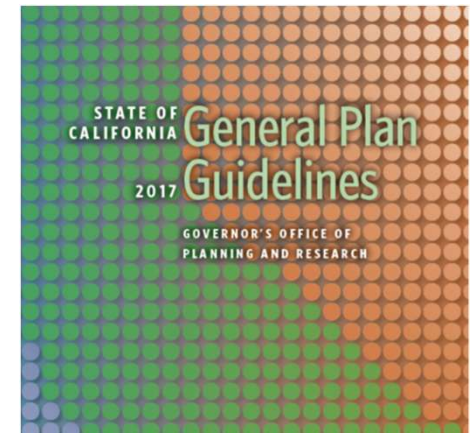
New Chapters

- Public Engagement
- Healthy communities
- **Climate Change**
- Economic Development
- **Social Equity/Resilience**

General Plan Guidelines updated last in 2003.

Since then:

- SB 1000- Environmental Justice
- SB 379- Climate Change Adaptation**
- SB 375- Sustainable communities strategies
- AB1358 – Complete Streets
- SB 5- Flood management
- SB 743-Vehicle Miles Traveled
- SB 244- Island or fringe communities
- AB 52- Tribal consultation
- AB 2140- Local hazard mitigation plans
- Many more!!



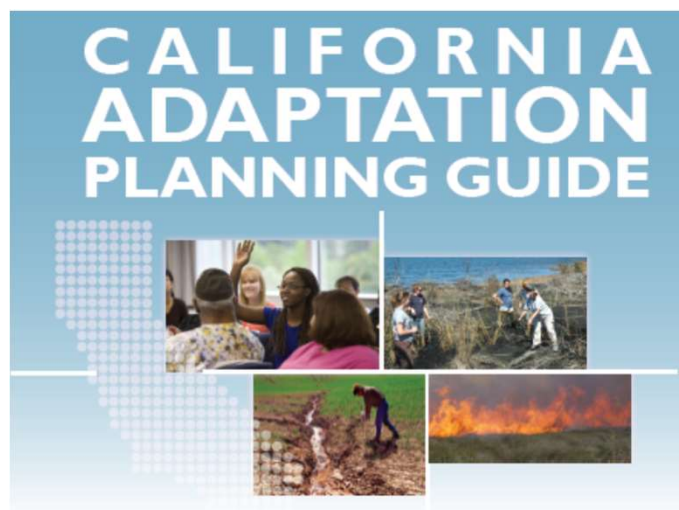


Safety Element - Adaptation

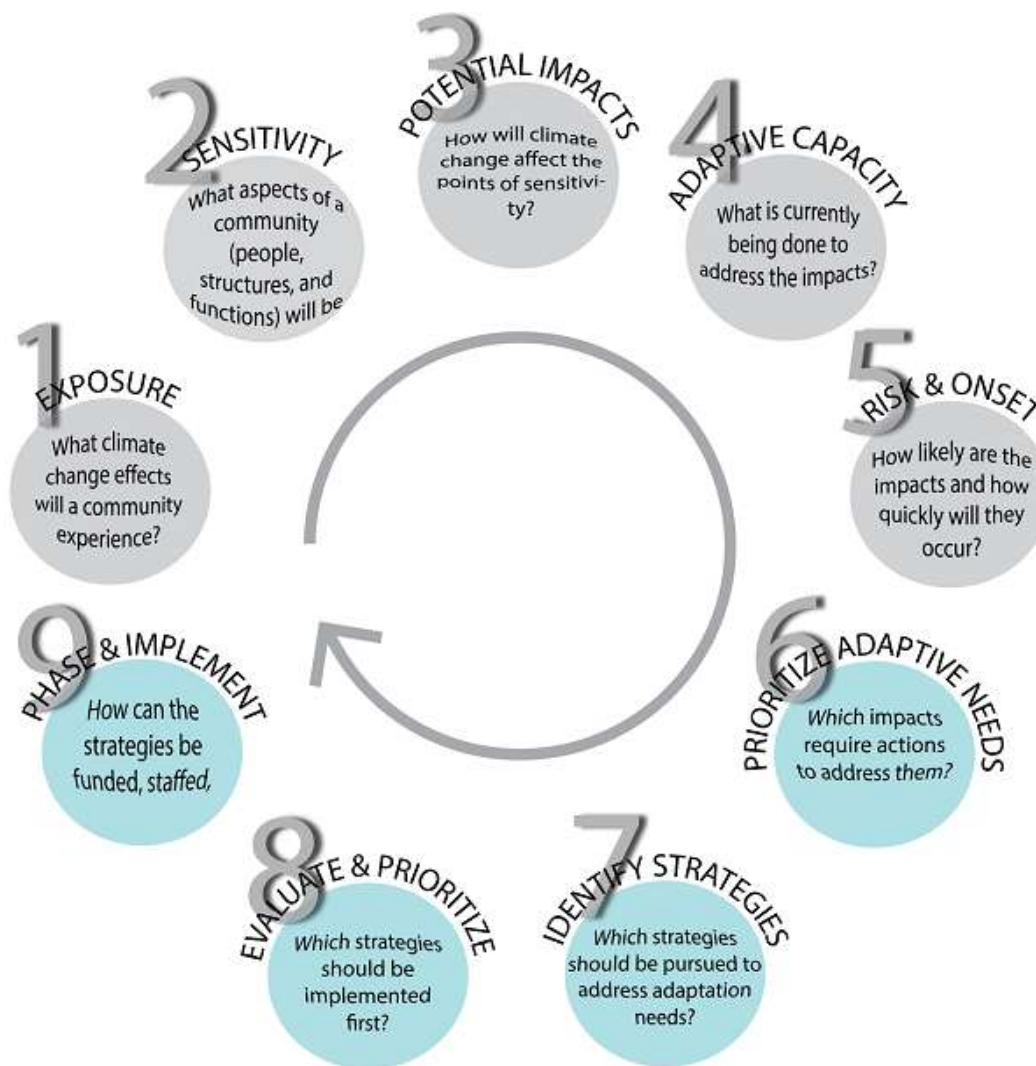
- Climate change adaptation is now required in Safety Elements
 - Does not preclude incorporation in to other areas
 - Encourages cross-linkages and co-benefits
- Some distinct actions:
 - Review existing plans (gap analysis)
 - Assess community vulnerability
 - Create a set of goals, policies and objectives
 - Create a set of “feasible” implementation measures
 - Implement measures



Adaptation Planning Guide



PLANNING FOR ADAPTIVE COMMUNITIES





Cal-Adapt and Vulnerability

The screenshot shows the Cal-Adapt website in a browser. The address bar displays "beta.cal-adapt.org". The website has a dark header with the "cal-adapt" logo on the left and navigation links (Tools, Data, Resources, Blog, About, Help) on the right. The main content area features a large background image of a snowy mountain range. Overlaid on this image is the text "Exploring California's Climate Change Research" and a subtext: "Cal-Adapt provides a view of how climate change might affect California. Find tools, data, and resources to conduct research, develop adaptation plans and build applications." Below this text is a horizontal row of six interactive tiles, each with an icon and a label: "Annual Averages Extreme Heat" (yellow sun icon), "Annual Averages" (blue sun icon), "Annual Averages" (blue water droplets icon), "Snowpack" (blue snowflake icon), "Sea Level Rise" (blue wavy lines icon), and "Wildfire" (orange flame icon).

Climate Tools

Download Data

Find Resources



Timeline and Implementation

- Update at the next LHMP update or by 1/2021 if no LHMP;
- Suggestion to use the Housing Element to align updates (like fire and flood);
- Use adaptation plan, climate action plan or general plan;
 - Leverage existing work;
 - Incorporation by reference or direct;
- Leveraging State funding opportunities.



Tools to Address Adaptation

Guidelines for CEQA compliance	CEQA Guidelines
Comprehensive framework for addressing adaptation at the local level	APG
Visualization tool for the impacts of climate change and links to resources	Cal-Adapt
Federal resource for visualizing impacts, case studies, decision support	Climate Resilience Toolkit
Guide to developing adaptation policy at the local level in California	Adaptation Planning Guide
Georgetown University Climate Center Adaptation Clearinghouse	Adaptation Clearinghouse
The State's approach to addressing climate impacts	Safeguarding California Plan
The State's framework for climate hazards	State Hazard Mitigation Plan
See also: Chapter 7, Climate Change of the General Plan Guidelines	Chapter 8, Climate
See also: OPR Adaptation Clearinghouse	ICARP



Data requirements: Vulnerability

- Assets, resources and populations that are sensitive to various climate change impacts;
 - Local, regional, state data (MPOs, LAFCOs, Counties, etc)
- Current status of climate change preparedness;
- Historical data on natural events and hazards;
- Vulnerability maps and areas that have repetitive loss;
- Existing and planned development in at-risk areas;
- Protection of public health, safety, and the environment.



Goals, Measures, Implementation

- Feasible approaches to reducing risk with new uses of land;
- Location of at-risk and resilient critical facilities;
- Identify how buildings and development can be made resilient;
- Identify an approach to working with local, regional, state, federal agencies;
- Identify natural infrastructure options for use with adaptation projects;
- Identify how to incorporate adaptation measures in to proposed development.



On the Ground Implementation

- Integration with other plans and programs:
 - Regional Transportation Plans/Sustainable Community Strategies
 - General Plans, Adaptation Plans, Climate Action Plans
 - Local Hazard Mitigation Plans
 - Local Coastal Plans
 - Capital Improvement Plans
 - Zoning Codes
 - Design Guidelines
 - Grading Ordinances
 - Administrative processes
 - Other...
- Integration with funding/financing;
- Capacity and process improvements;
- Regional Collaboration.

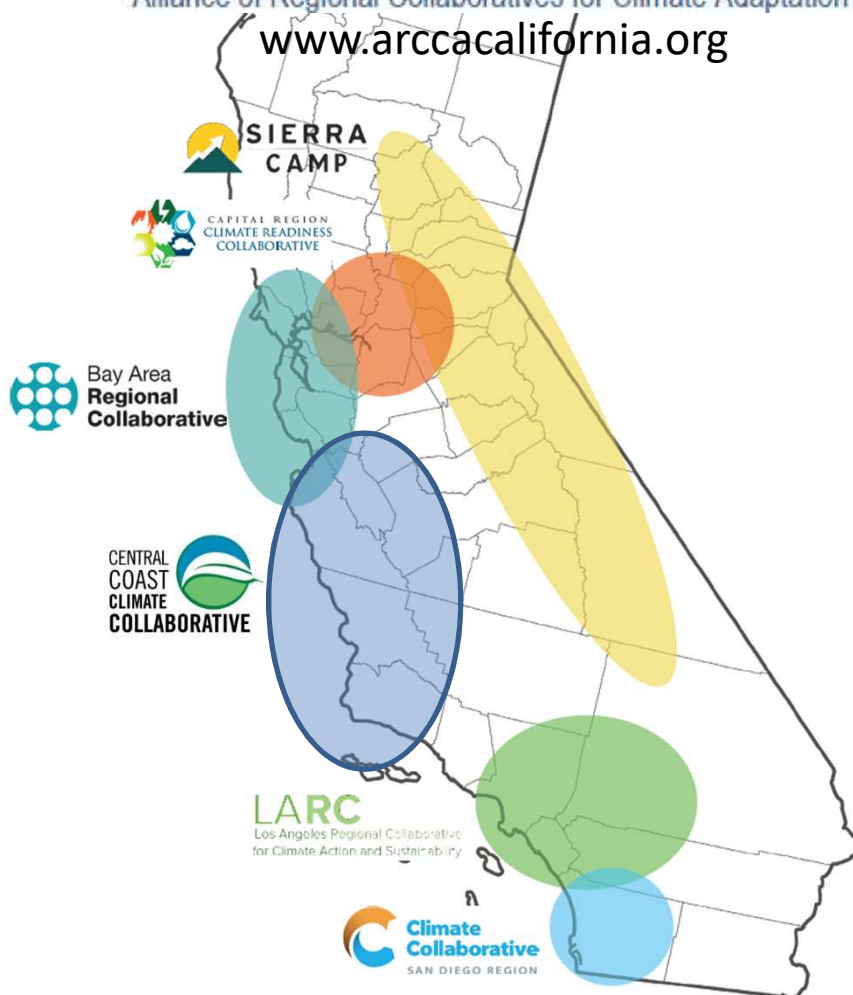


Collaboration at the Regional Scale

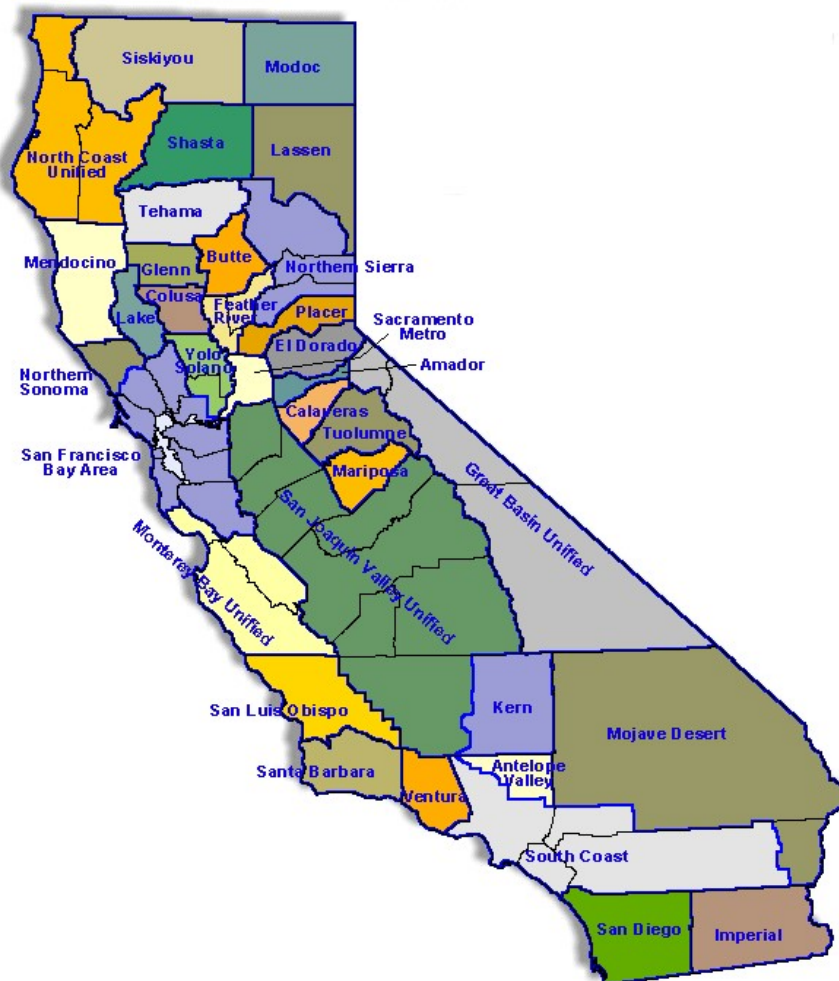
ARCCA

Alliance of Regional Collaboratives for Climate Adaptation

www.arccacalifornia.org



California Air Districts



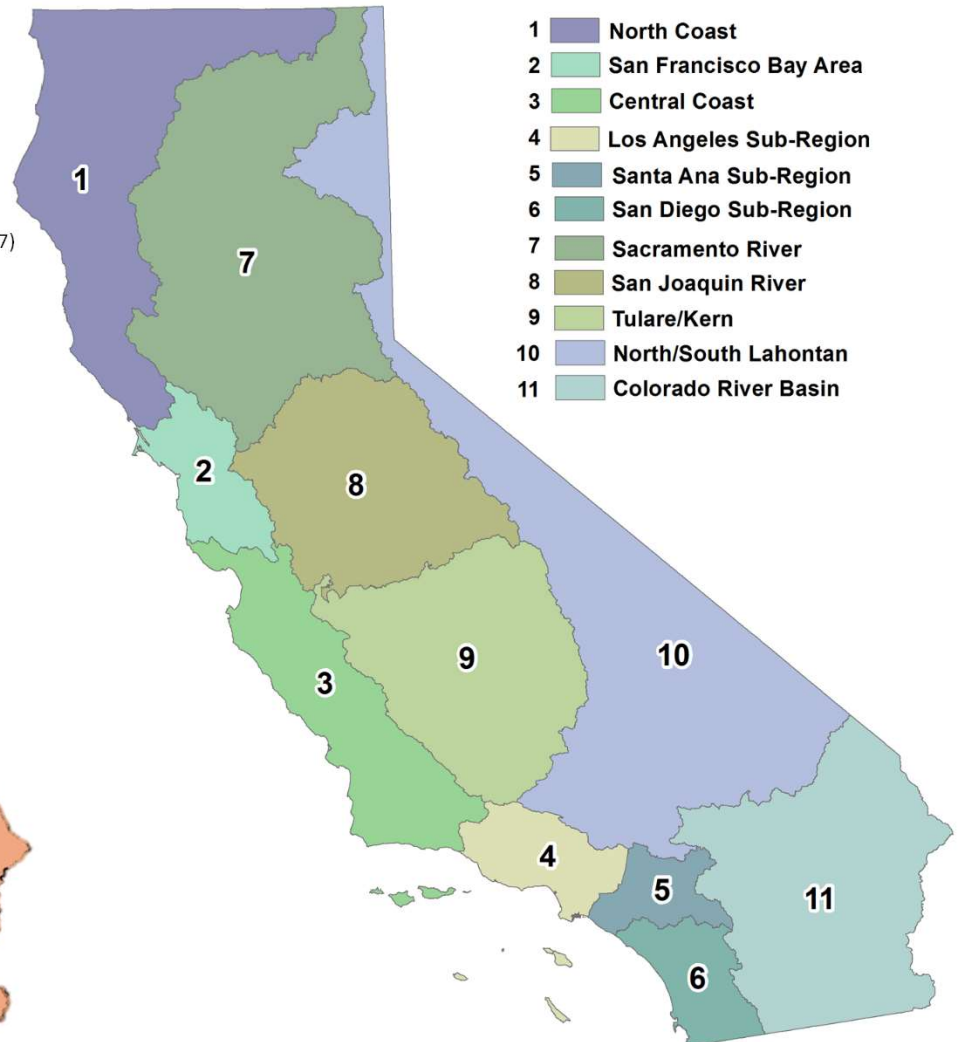


Collaboration at the Regional Scale

California Water Board Regions:



Integrated Regional Water Management

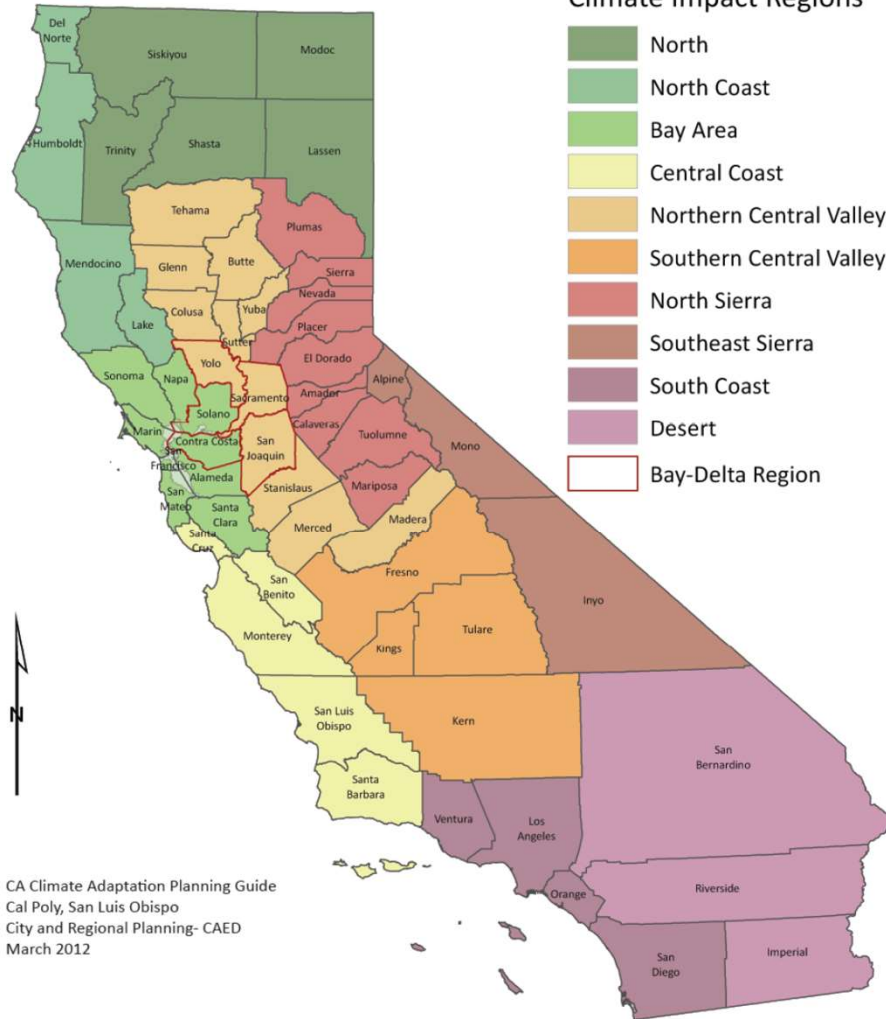




Collaboration at the Regional Scale

CALIFORNIA Metropolitan Planning Organizations (MPOs) and Regional Transportation Planning Agencies (RTPAs)

Adaptation Planning Guide Climate Impact Regions



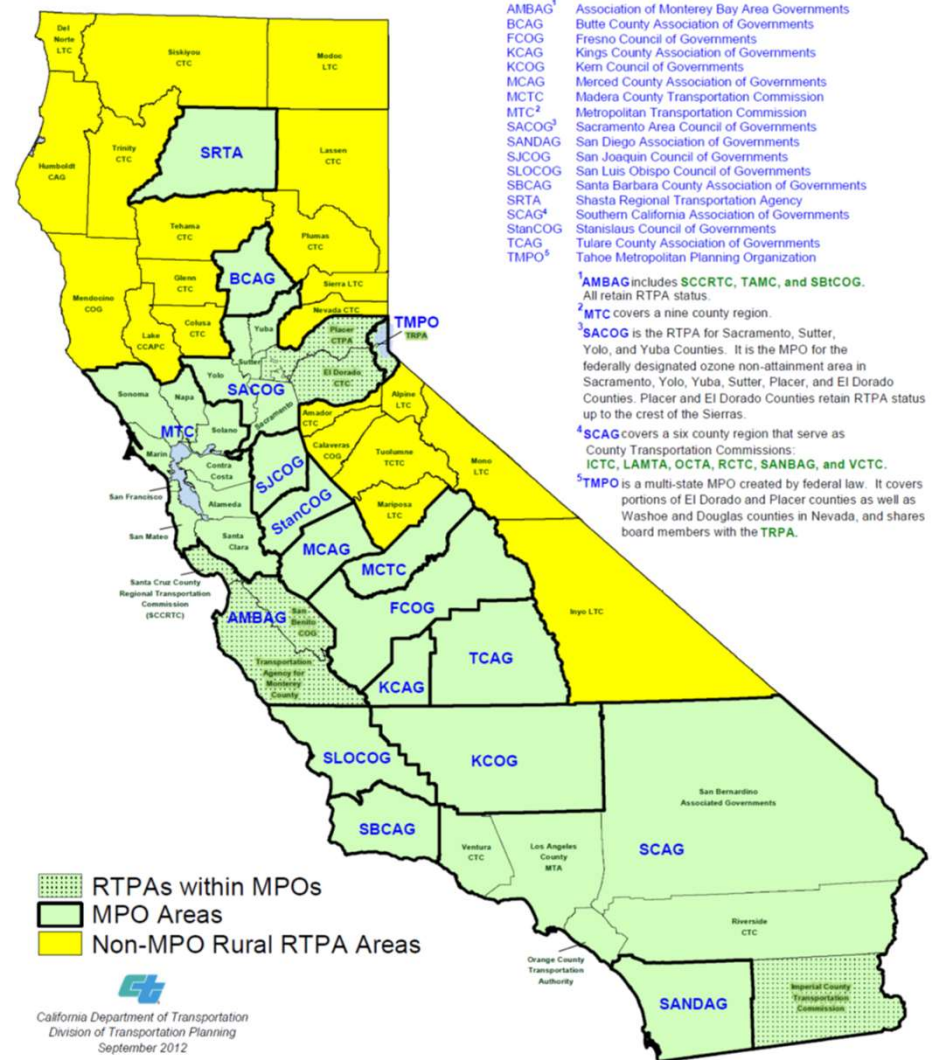
CA Climate Adaptation Planning Guide
Cal Poly, San Luis Obispo
City and Regional Planning- CAED
March 2012

Sources: CA Natural Res Agency

0 25 50 100 Miles

Created by:
C. Schult

120315 Climate Impact Regions - no ocean.mxd



AMBAG¹ Association of Monterey Bay Area Governments
BCAG Butte County Association of Governments
FCOG Fresno Council of Governments
KCAG Kings County Association of Governments
KCOG Kern Council of Governments
MCAG Merced County Association of Governments
MCTC Madera County Transportation Commission
MTC² Metropolitan Transportation Commission
SACOG³ Sacramento Area Council of Governments
SANDAG San Diego Association of Governments
SJCOG San Joaquin Council of Governments
SLOCOG San Luis Obispo Council of Governments
SBCAG Santa Barbara County Association of Governments
SRTA Shasta Regional Transportation Agency
SCAG⁴ Southern California Association of Governments
StanCOG Stanislaus Council of Governments
TCAG Tulare County Association of Governments
TMPO⁵ Tahoe Metropolitan Planning Organization

¹AMBAG includes SCCRTC, TAMC, and SBTICOG. All retain RTPA status.

²MTC covers a nine county region.

³SACOG is the RTPA for Sacramento, Sutter, Yolo, and Yuba Counties. It is the MPO for the federally designated ozone non-attainment area in Sacramento, Yolo, Yuba, Sutter, Placer, and El Dorado Counties. Placer and El Dorado Counties retain RTPA status up to the crest of the Sierras.

⁴SCAG covers a six county region that serve as County Transportation Commissions: ICTC, LAMTA, OCTA, RCTC, SANBAG, and VCTC.

⁵TMPO is a multi-state MPO created by federal law. It covers portions of El Dorado and Placer counties as well as Washoe and Douglas counties in Nevada, and shares board members with the TRPA.